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MR Form 3 (Revised 1984)

MAR 1 3 1985

GAS & MINING

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year 1-89 to Month/Year 12-89

(To be submitted for \underline{each} mining operation at the end of \underline{each} calendar year to the Division at this $\underline{address}$:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR: MINE NAME: Melite
ADDRESS: POBox 387
Contrille, West 84017
PERMIT NUMBER AND DATE OF PERMIT:
REPRESENTATIVE: Carsten Mortense
SECTION(S): $5-8$ TOWNSHIP(S): 15 RANGE(S): $5£$
MINERAL(S) MINED: Shale
STATE AND/OR FEDERAL MINERAL LEASE NUMBERS:
SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY:

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an $\underline{\text{up-dated map}}$ and $\underline{\text{plan}}$ prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance	Acreage
Pit Roads Facilities Waste Dumps Other	
(b) Tabulation of acreage af	fected to date (by years).
Date by Year	Acreage (Total

Date by	Year	Acreage (Total
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

		Area			
Area Affected (in mining sequence) (If more space is needed, please attach.)	1	2	3	etc.	
Acreage of Area					
Depth of Topsoil Removal (inches)					
Depth of Topsoil Replacement (inches)*	4				
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)					
Volume Actually Salvaged (yd ³ or ac ft)	9				
Volume Required for Reclamation (yd ³ or ac ft)					
Surplus or Deficit Volume (yd ³ or ac ft)					
Storage Status (short- or long-term)					

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area 1 2 3 etc.
Storage Location	
Area Where Soil Has Been Used (if not stored)	
Running Total (all stockpiles) (ya ³ or ac ft)	
Short-term	
Long-term	
*Of previously stripped area recently reclaimed.	
(a) Tabulation of all (newly removed) out-of-paper placement and illustration on a map.	it spoil volumes, date of
<u>Area</u> <u>Date</u>	Acreage .
(e) Tabulation of quantity of commodity mined.	
Commodity	Tonnage
(Mined) (Milled)	
(f) Description of any new construction during illustration on a map, including, but not limited	the report period with to:
1. Buildings and support facilities.	
2. Roads.	

3.	Diversion ditches, collector ditches, interceptor ditches, etc.
4.	Culverts.
5.	Sediment ponds, containment ponds.
6.	Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).
7.	Topsoil stockpiles.
(g) Des	cription of any environmental problem areas with a proposed plan ion and illustration on a map, including, but not limited to:
1.	Pit stability problems.
2.	Subsidence.

5. Revegation: 6. Exist: CLAMATION: (a) Tabulation on a manustration of manustration on a manustration of manustration of manustration on a manustration	ing, sliding or erosion. etation problem areas. ence and location of unsuitab of the acreage reclaimed durinap, distinguishing between: illed, graded and contoured a Area Area piled areas. Area	ailure, etc.
5. Revegation: 6. Exists CLAMATION: (a) Tabulation lustration on a manual backf	etation problem areas. ence and location of unsuitab of the acreage reclaimed duri hap, distinguishing between: illed, graded and contoured a Area piled areas.	
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llustration on a m	ap, distinguishing between: illed, graded and contoured a Area piled areas.	ole (toxic) overburden.
(a) Tabulation Llustration on a m l. Backf	ap, distinguishing between: illed, graded and contoured a Area piled areas.	
	Area Diled areas.	ing the report perioa with
2. Topso	oiled areas.	areas.
2. Topso		<u>Acreage</u>
2. Topso		-,
	<u>Area</u>	
		<u>Acreage</u>

3.	Seeded areas.	
	<u>Area</u>	Acreage
4.	Reseeded areas (areas previ	ously seeded, then seeded again).
	Area	Acreage
	lation of total acreage recla ears with illustration on an	imed (seeded with permanent seed mix) updated map:
	Year	Acreage
	1975	
	1976	
	1977	
	1978	
	1979	
	1980	
	1981	
	1982	
	1983	
	1984	
	1704	
(c) Descriperiod, inclu		ocedures used during the report
1.	Average depth of topsoil ap	plied.
2.	Type of seed (species) used	for seeding during the report period.

Spring
Spring
Fall
A Sooding procedures used
4. Seeding procedures used.
(Hand broadcast or drilled or any other).
5. Rate of seed application.
Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)
6. Type and rate of fertilizer applied.
7. Type and rate of mulch applied.
8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).
9. Revegetation test plot information.
(Cover, density, productivity, etc.)

10.	Soil analysis results.
	ription of results of previous revegetation efforts, including: be done as applicable.)
1.	Types (species) of seed that have germinated and are growing.
2.	Types (species) of seed that are not growing successfully.
3.	Areas experiencing problems with weeds and weed types.
4.	Significant erosional problems.
5.	Areas of unsuitable overburden on the surface as related to revegetation failure.
6.	Procedures used or proposed to correct these problems.

7. Acreage and revegetated	dates of release (upon ins areas.	pection by the State) of
Area	Date	Acreage
8. Results of s	soil analysis.	
period, including itemized replacement, seeding, etc.	the reclamation costs incur d costs for each operation) and for each type of dis moval, etc.) on a per acre	(i.e., grading, topsoil turbance (i.e., spoil,
	Acres	Cost/Acre
 Grading Backfilling Contouring Topsoil Replacement Seeding A. Seedbed Preparation B. Mulch C. Fertilizer D. Seed Other 	on	
BOND INFORMATION:		
A. An updated bond e Division's approv changes to the MR actual/estimated section above. T	estimate should be included val of the Mining and Reclar P have occurred, including reclamation costs as outling the date of the release of solity for a partial bond recluded.	mation Plan (MRP) or if a detailed itemization of ned in the RECLAMATION revegetated areas from
	Amount Type	Date Posted
Present Bond		

Increased Bond Amou	nt (attached reclamation estimate)	•
B. Bond release.		
Acres	Bond Amount Released	Date

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).(b) Other special conditions (status).

APPENDIX I

ANNUAL REPORT MAPS

- 1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
- 2. Map sheets should be of a reasonable size, not to exceed 48 inches on a sige.
- 3. Maps must have a title block with:
 - A. Map title.
 - B. Name and address of permittee.
 - C. Permit and amendment numbers.
 - D. Annual report period.
 - E. Scale, north arrow, contour interval, date of photography, etc.
- 4. All maps must show:
 - A. Legal subdivisions.
 - B. Permit area boundary clearly shown and labelled.
 - C. Amendment areas clearly shown and labelled.
 - D. Contour features.
- 5. The following features should all be clearly identified:
 - A. Topsoil stockpiles (numbered and with volumes).
 - B. Settling ponds and sediment control structures.
 - C. Haul roads.
 - D. Pits identified by location, name, number, etc.
 - E. Ramps (numbered).
 - F. Out-of-pit spoil dumps.
 - G. All waste disposal sites including, but not limited to:
 - 1. Landfill sites.
 - 2. Carbonaceous waste dumps.
 - H. Diversion ditches.
 - I. Monitoring sites.
- 6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.

State of Utal

Dept of Mat. Rec.

Div. of Oil Cas and Mining

35 5 West Moth Temple

3 Triad Center, Buile 350

BLC, Ut 84180-1703

There were 98, 137.5 tons of state mines from this property during the year of 1984. There was no new vergin ground that was stripped and natural relnegitation has reclaimed brostofthe existing dumps. The material that was mined came from the existing pit and less than 2000 tons of material were moned to the dumpareas. There has been no sliding or erosion of the mine area in the last year. There are any other questions, please Thigh your Morlende